



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/502,498A

DATE: 01/28/2003

TIME: 16:16:35

Input Set : A:\Kilian.txt
 Output Set: N:\CRF4\01282003\I502498A.raw

3 <110> APPLICANT: Kilian, Andrzej
 4 Bowtell, David
 6 <120> TITLE OF INVENTION: VERTEBRATE TELOMERASE GENES AND PROTEINS AND USES
 7 THEREOF
 9 <130> FILE REFERENCE: 082447-0102
 11 <140> CURRENT APPLICATION NUMBER: 09/502,498A
 12 <141> CURRENT FILING DATE: 2000-02-11
 14 <160> NUMBER OF SEQ ID NOS: 155
 16 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

10162 <210> SEQ ID NO: 155
 10163 <211> LENGTH: 622
 10164 <212> TYPE: PRT
 10165 <213> ORGANISM: Homo sapiens
 10167 <220> FEATURE:
 10168 <223> OTHER INFORMATION: N-Terminal Truncated Telomerase (ver.2); encoded
 10169 by SEQ ID NO:51, with Y Intron ORF3
 10171 <400> SEQUENCE: 155
 10172 Met Pro Arg Ala Pro Arg Cys Arg Ala Val Arg Ser Leu Leu Arg Ser
 10173 1 5 10 15
 10175 His Thr Arg Glu Val Leu Pro Leu Ala Thr Phe Val Arg Arg Leu Gly
 10176 20 25 30
 10178 Pro Gln Gly Trp Arg Leu Val Gln Arg Gly Asp Pro Ala Ala Phe Arg
 10179 35 40 45
 10181 Ala Leu Val Ala Gln Cys Leu Val Cys Val Pro Trp Asp Ala Arg Pro
 10182 50 55 60
 10184 Pro Pro Ala Ala Pro Ser Phe Arg Gln Val Pro Pro Arg Gly Arg Arg
 10185 65 70 75 80
 10187 Pro Ala Gly Val Glu Gly Arg Gly Glu Pro Ala Thr Cys Gly Glu
 10188 85 90 95
 10190 Gln Arg Arg Arg Leu Arg Ala Leu Pro Pro Gln Val Ser Cys Leu Lys
 10191 100 105 110
 10193 Glu Leu Val Ala Arg Val Leu Gln Arg Leu Cys Glu Arg Gly Ala Lys
 10194 115 120 125
 10196 Asn Val Leu Ala Phe Gly Phe Ala Leu Leu Asp Gly Ala Arg Gly Gly
 10197 130 135 140
 10199 Pro Pro Glu Ala Phe Thr Thr Ser Val Arg Ser Tyr Leu Pro Asn Thr
 10200 145 150 155 160
 10202 Val Thr Asp Ala Leu Arg Gly Ser Gly Ala Trp Gly Leu Leu Leu Arg
 10203 165 170 175

Does Not Comply
 Corrected Diskette Needed

Q, 3

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10205 Arg Val Gly Asp Asp Val Leu Val His Leu Leu Ala Arg Cys Ala Leu
 10206 180 185 190
 10208 Phe Val Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro
 10209 195 200 205
 10211 Leu Tyr Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala
 10212 210 215 220
 10214 Ser Gly Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser
 10215 225 230 235 240
 10217 Val Arg Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg
 10218 245 250 255
 10220 Arg Arg Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro
 10221 260 265 270
 10223 Arg Arg Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly
 10224 275 280 285
 10226 Ser Trp Ala His Pro Gly Arg Thr Arg Gly Pro Ser Asp Arg Gly Phe
 10227 290 295 300
 10229 Cys Val Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu
 10230 305 310 315 320
 10232 Gly Ala Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln
 10233 325 330 335
 10235 His His Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp
 10236 340 345 350
 10238 Thr Pro Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser
 10239 355 360 365
 10241 Ser Gly Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu
 10242 370 375 380
 10244 Arg Pro Ser Leu Thr Gly Ala Arg Arg Leu Val Glu Thr Ile Phe Leu
 10245 385 390 395 400
 10247 Gly Ser Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu
 10248 405 410 415
 10250 Pro Gln Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly
 10251 420 425 430
 10253 Asn His Ala Gln Cys Pro Tyr Gly Val Leu Leu Lys Thr His Cys Pro
 10254 435 440 445
 10256 Leu Arg Ala Ala Val Thr Pro Ala Ala Gly Val Cys Ala Arg Glu Lys
 10257 450 455 460
 10259 Pro Gln Gly Ser Val Ala Ala Pro Glu Glu Asp Thr Asp Pro Arg
 10260 465 470 475 480
 10262 Arg Leu Val Gln Leu Leu Arg Gln His Ser Ser Pro Trp Gln Val Tyr
 10263 485 490 495
 10265 Gly Phe Val Arg Ala Cys Leu Arg Arg Leu Val Pro Pro Gly Leu Trp
 10266 500 505 510
 10268 Gly Ser Arg His Asn Glu Arg Arg Phe Leu Arg Asn Thr Lys Lys Phe
 10269 515 520 525
 10271 Ile Ser Leu Gly Lys His Ala Lys Leu Ser Leu Gln Glu Leu Thr Trp
 10272 530 535 540
 10274 Lys Met Ser Val Arg Asp Cys Ala Trp Leu Arg Arg Ser Pro Gly Val
 10275 545 550 555 560
 10277 Gly Cys Val Pro Ala Ala Glu His Arg Leu Arg Glu Glu Ile Leu Ala

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10278	565	570	575
10280	Lys Phe Leu His Trp Leu Met Ser Val Tyr Val Val Glu Leu Leu Arg		
10281	580	585	590
10283	Ser Phe Phe Tyr Val Thr Glu Thr Thr Phe Gln Lys Asn Arg Leu Phe		
10284	595	600	605
10286	Phe Tyr Arg Lys Ser Val Trp Ser Lys Leu Gln Ser Ile Gly		
10287	610	615	620
E--> 10295	178		

VERIFICATION SUMMARY

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Input Set : A:\Killian.txt

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L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1740
L:3364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:1860
L:9327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:9364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:9406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:10295 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:155